

FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 24745-1607	SERIAL NO. 09/776,191
	APPLICANT MADISON et al.	
	FILING DATE February 2, 2001	GROUP 1614

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
ifp	A	4	1	7	9	3	3	7	12/18/79	Davis et al.	435	181	07/28/77
	B	4	3	0	1	1	4	4	11/17/81	Iwashita et al.	424	78	07/10/80
	C	4	4	9	6	6	8	9	01/29/85	Mitra	525	54.1	12/27/83
	D	4	6	4	0	8	3	5	02/03/87	Shimizu et al.	424	94	10/28/83
	E	4	6	7	0	4	1	7	06/02/87	Shimizu et al.	514	6	02/21/86
	F	4	7	9	1	1	9	2	12/13/88	Nakagawa et al.	530	399	06/18/87
	G	4	9	8	0	2	8	6	12/25/90	Morgan et al.	435	172.3	01/03/89
	H	5	2	2	5	5	3	9	07/06/93	Winter	530	387.3	10/25/91
	I	5	2	7	0	1	7	0	12/14/93	Schatz et al.	435	7.37	10/16/91
	J	4	9	5	2	4	9	6	08/28/90	Studier et al.	435	91	12/29/86
	K	5	2	1	5	8	9	9	06/01/93	Dattagupta	435	6	08/23/90
	L	5	4	3	6	1	2	8	07/25/95	Harpold et al.	435	6	01/27/93
	M	5	4	8	2	8	4	8	01/09/96	Dickson et al.	435	219	02/22/94
	N	5	6	1	2	4	7	4	03/18/97	Patel	536	27.14	06/30/94
	O	5	7	9	2	6	1	6	08/11/98	Persico et al.	435	7.21	06/05/95
	P	5	9	7	2	6	1	6	10/26/99	O'Brien et al.	435	6	02/20/98
Up	Q	6	1	2	1	2	3	8	09/19/00	Dower et al.	514	13	02/03/99

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
Up	R	0	0	1	2	7	0	8	03/09/00	PCT				
Up	S	0	0	5	2	0	4	4	09/08/00	PCT				
Up	T	0	0	5	3	2	3	2	09/14/00	PCT				
Up	U	0	0	6	8	2	4	7	11/16/00	PCT				

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MADISON et al.FILING DATE  
February 2, 2001GROUP  
1614

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation	
													Yes	No
up	V	0	0	7	8	9	6	1	12/28/00	PCT A1				
	W	8	8	0	9	8	1	0	12/15/88	PCT				
	X	8	9	1	0	1	3	4	11/02/89	PCT				
	Y	9	0	1	1	3	6	4	10/04/90	PCT				
	Z	9	2	0	6	1	8	0	04/16/92	PCT				
	AA	9	2	2	0	3	1	6	11/26/92	PCT				
	AB	9	2	2	2	6	3	5	12/23/92	PCT				
	AC	9	3	1	4	1	8	8	07/22/93	PCT				
	AD	9	3	2	0	2	2	1	10/14/93	PCT				
	AE	9	4	0	8	5	9	8	04/28/94	PCT				
	AF	9	5	1	1	7	5	5	05/04/95	PCT				
up	AG	9	5	3	4	3	2	6	12/21/95	PCT				

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

up	AH	Abraham <i>et al.</i> , "Immunochemical Identification of the Serine Protease Inhibitor $\alpha_1$ -Antichymotrypsin in the Brain Amyloid Deposits of Alzheimer's Disease", <i>Cell</i> , <u>52</u> :487-501; (1988)
	AI	Alam <i>et al.</i> , "Reporter Genes: Application to the Study of Mammalian Gene Transcription", <i>Anal. Biochem.</i> , <u>188</u> :245-254; (1990)
	AJ	Alonso <i>et al.</i> , "Effects of synthetic urokinase inhibitors on local invasion and metastasis in a murine mammary tumor model", <i>Breast Cancer Res. Treat.</i> , <u>40</u> :209-223; (1996)
	AK	Appel <i>et al.</i> , "The <i>Drosophila</i> Stubble-stubloid gene encodes an apparent transmembrane serine protease required for epithelial morphogenesis", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>90</u> :4937-4941; (1993)
up	AL	Avery <i>et al.</i> , "Systemic Amiloride Inhibits Experimentally Induced Neovascularization", <i>Arch. Ophthalmol.</i> , <u>108</u> :1474-1476; (1990)

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Ugr	AM	Brains <i>et al.</i> , "Effects of LEX032, a novel recombinant serine protease inhibitor, on N <sup>6</sup> -nitro-L-arginine methyl ester induced leukocyte-endothelial cell", <i>Eur. J. Pharmacol.</i> , <u>356</u> :67-72; (1998)
	AN	Baker <i>et al.</i> , "A Scintillation Proximity Assay for UDP-GalNAc:Polypeptide, N-Acetylgalactosaminyltransferase", <i>Anal. Biochem.</i> , <u>239</u> :20-24; (1996)
	AO	Batra <i>et al.</i> , "Insertion of Constant Region Domains of Human IgG <sub>1</sub> Into CD4-PE40 Increases Its Plasma Half-life", <i>Molecular Immunol.</i> , <u>30</u> (4):379-386; (1993)
	AP	Baum <i>et al.</i> , "Development of a Scintillation Proximity Assay for Human Cytomegalovirus Protease Using <sup>33</sup> Phosphorous", <i>Anal. Biochem.</i> , <u>237</u> :129-134; (1996)
	AQ	Beck <i>et al.</i> , "Identification of Efficiently Cleaved Substrates for HIV-1 Protease Using a Phage Display Library and Use in Inhibitor Development", <i>Virology</i> , <u>274</u> (2):391-401; (2000)
	AR	Berger <i>et al.</i> , "Structure of the mouse gene for the serine protease inhibitor neuroserpin (PI12)", <i>Gene</i> , <u>214</u> :25-33; (1998)
	AS	Benoist <i>et al.</i> , "In vivo sequence requirements of the SV40 early promoter region", <i>Nature</i> , <u>290</u> :304-310; (1981)
	AT	Billström <i>et al.</i> , "The Urokinase Inhibitor p-Aminobenzamidine Inhibits Growth of a Human Prostate Tumor in SCID Mice", <i>Int. J. Cancer</i> , <u>61</u> :542-547; (1995)
	AU	Blanton <i>et al.</i> , "Characterization of a native and recombinant <i>Schistosoma haematobium</i> serine protease inhibitor gene product", <i>Mol. Biochem. Parasitol.</i> , <u>63</u> :1-11; (1994)
	AV	Boesen <i>et al.</i> , "Circumvention of chemotherapy-induced myelosuppression by transfer of the <i>mdr1</i> gene", <u>6</u> :291-302; (1994)
	A W	Bourinbaier <i>et al.</i> , "Effect of Serine Protease Inhibitor, N- $\alpha$ -Tosyl-L-lysyl-Chloromethyl Ketone (TLCK), on Cell-Mediated and Cell-Free HIV-1 Spread", <i>Cell. Immuno.</i> , <u>155</u> :230-236; (1994)
	AX	Bout <i>et al.</i> , "Lung Gene Therapy: In Vivo Adenovirus-Mediated Gene Transfer to Rhesus Monkey Airway Epithelium", <i>Human Gene Therapy</i> , <u>5</u> :3-10; (1994)
	AY	Braunwalder <i>et al.</i> , "Application of Scintillating Microtiter Plates to Measure Phosphopeptide Interactions with the GRB2-SH2 Binding Domain", <i>J. Biomol. Screening</i> , <u>1</u> (1):23-26; (1996)
ylo	AZ	Brinster <i>et al.</i> , "Regulation of metallothionein-thymidine kinase fusion plasmids injected into mouse eggs", <i>Nature</i> , <u>296</u> :39-42; (1982)

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y	BA	Brooks <i>et al.</i> , "Use of the 10-Day-Old Chick Embryo Model for Studying Angiogenesis", <i>Methods in Molecular Biology</i> , <u>129</u> :257-269; (1999)
	BB	Capecchi <i>et al.</i> , "Altering the Genome by Homologous Recombination", <i>Science</i> , <u>244</u> :1288-1292; (1989)
	BC	Chait <i>et al.</i> , "Weighing Naked Proteins: Practical, High-Accuracy Mass Measurement of Peptides and Proteins", <i>Science</i> , <u>257</u> :1885-1894; (1992)
	BD	Chen <i>et al.</i> , "IL-1 $\beta$ Induces Serine Protease Inhibitor 3 (SPI-3) Gene Expression in Rat Pancreatic $\beta$ -Cells. Detection by Differential display of Messenger RNA", <i>CYTOKINE</i> , <u>11</u> (11):856-862; (1999)
	BE	Chen <i>et al.</i> , "Interaction of Phosphorylated Fc $\gamma$ R1y Immunoglobulin Receptor Tyrosine Activation Motif-based Peptides with Dual and Single SH2 Domains of p72 <sup>syk</sup> ", <i>J. Biol. Chem.</i> , <u>271</u> (41):25308-25315; (1996)
	BF	Cline <i>et al.</i> , "Perspectives for Gene Therapy: Inserting New Genetic Information into Mammalian Cells by Physical Techniques and Viral Vectors", <i>Pharmac. Ther.</i> , <u>29</u> :69-92; (1985)
	BG	Clowes <i>et al.</i> , "Long-Term Biological Response of Injured Rat Carotid Artery Seeded with Smooth Muscle Cells Expressing Retrovirally Introduced Human Genes", <i>J. Clin. Invest.</i> , <u>93</u> :644-651; (1994)
	BH	Cole <i>et al.</i> , in <i>Monoclonal Antibodies and Cancer Therapy</i> , "The EBV-Hybridoma Technique and Its Application to Human Lung Cancer", <i>Alan R. Liss, Inc.</i> , pages 77-96; (1985)
	BI	Coombs <i>et al.</i> , "Revisiting Catalysis by Chymotrypsin Family Serine Proteases Using Peptide Substrates and Inhibitors with Unnatural Main Chains", <i>J. Biol. Chem.</i> , <u>274</u> (34):24074-24074; (1999)
	BJ	Coombs <i>et al.</i> , "Substrate specificity of prostate-specific antigen (PSA)", <i>Chem. Biol.</i> , <u>5</u> (9):475-488; (1998)
	BK	Coombs <i>et al.</i> , "Directing Sequence-Specific Proteolysis to New Targets. The Influence Of Loop Size And Target Sequence Of Selective Proteolysis By Tissue-Type Plasminogen Activator And Urokinase-Type Plasminogen Activator", <i>J. Biol. Chem.</i> , <u>273</u> (8):4323-4328; (1998)
gl	BL	Coombs <i>et al.</i> , "Distinct Mechanisms Contribute to Stringent Substrate Specificity of Tissue-type Plasminogen Activator", <i>J. Biol. Chem.</i> , <u>271</u> (8):4461-4467; (1996)

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Cp	BM	Cote <i>et al.</i> , "Generation of human monoclonal antibodies reactive with cellular antigens", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>80</u> :2026-2030; (1983)
	BN	Cotten <i>et al.</i> , "Receptor-Mediated Transport of DNA into Eukaryotic Cells", <i>Meth. Enzymol.</i> , <u>218</u> :619-645; (1993)
	BO	Crowley <i>et al.</i> , "Prevention of metastasis by inhibition of the urokinase receptor", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>90</u> :5021-5025; (1993)
	BP	Cumber <i>et al.</i> , "Structural Features of the Antibody-A Chain Linkage that Influences the Activity and Stability of Ricin A Chain Immunotoxins", <i>Bioconj. Chem.</i> , <u>3</u> :397-401; (1992)
	BQ	Cwirla <i>et al.</i> , "Peptides on phage: A vast library of peptides for identifying ligands", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>87</u> :6378-6382; (1990)
	BR	Delaria <i>et al.</i> , "Characterization of Placental Bikunin, a Novel Human Serine Protease Inhibitor", <i>J. Biol. Chem.</i> , <u>272</u> (18):12209-12214; (1997)
	BS	Dillon, "Regulating gene expression in gene therapy", <i>TIBTECH</i> , <u>11</u> (5):167-173; (1993)
	BT	Ding <i>et al.</i> , "Origins of the specificity of tissue-type plasminogen activator", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>92</u> (17):7627-7631; (1995)
	BU	Dodet, "Commercial prospects for gene therapy - a company survey", <i>TIBTECH</i> , <u>11</u> (5):182-189; (1993)
	BV	Dower <i>et al.</i> , "The Search for Molecular Diversity (II): Recombinant and Synthetic Randomized Peptide Libraries", <i>An. Rep. Med. Chem.</i> , <u>26</u> :271-280; (1991)
	BW	Dryjanski <i>et al.</i> , "N-Tosyl-L-phenylalanine Chloromethyl Ketone, a Serine Protease Inhibitor, Identifies Glutamate 398 at the Coenzyme-Binding Site of Human Aldehyde Dehydrogenase. Evidence for a Second "Naked Anion" at the Active Site", <i>Biochem.</i> , <u>37</u> (40):14151-14156; (1998)
	BX	Dufer <i>et al.</i> , "Differential Effect of the Serine Protease Inhibitor Phenyl Methyl Sulfonyl Fluoride on Cytochemically Detectable Esterases in Human Leucocytes and Platelets", <i>Scand. J. Haematol.</i> , <u>32</u> (1):25-32; (1984)
	BY	Dzau <i>et al.</i> , "Gene therapy for cardiovascular disease", <i>TIBTECH</i> , <u>11</u> (5):205-210; (1993)
Cp	BZ	Eck <i>et al.</i> , "Structure of TNF- $\alpha$ : Implications for Receptor Binding", <i>J. Biol. Chem.</i> , <u>264</u> :17605; (1989)

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C87	CA	Edwards <i>et al.</i> , "Inhibition of elastase by a synthetic cotton-bound serine protease inhibitor: in vitro kinetics and inhibitor release", <i>Wound Repair Regen.</i> , <u>7(2)</u> :106-118; (1999)
	CB	Erickson <i>et al.</i> , "Design, Activity, and 2.8 Å Crystal Structure of a C <sub>2</sub> Symmetric Inhibitor Complexed to HIV-1 Protease", <i>Science</i> , <u>249</u> :527-533; (1990)
	CC	Evans <i>et al.</i> , "Design of Nonpeptidic Ligands for a Peptide Receptor: Cholecystokinin Antagonists", <i>J. Med. Chem.</i> , <u>30</u> :1229-1239; (1987)
	CD	Farley <i>et al.</i> , "Cloning and sequence analysis of rat hepsin, a cell surface serine proteinase", <i>BioChem. Biophys. Acta</i> , <u>1173</u> :350-352; (1993)
	CE	Fattom <i>et al.</i> , "Comparative Immunogenicity of Conjugates Composed of the <i>Staphylococcus aureus</i> Type 8 Capsular Polysaccharide Bound to Carrier Proteins by Adipic Acid Dihydrazide or N-Succinimidyl-3-(2-Pyridyldithio)propionate", <i>Infection &amp; Immun.</i> , <u>60(1)</u> :584-589; (1992)
	CF	Fauchere, "Elements for the Rational Design of Peptide Drugs", <i>Adv. Drug Res.</i> , <u>15</u> :29-69; (1986)
	CG	Fay <i>et al.</i> , "Platelets inhibit fibrinolysis in vitro by both plasminogen activator inhibitor dependent and -independent mechanisms", <i>Blood</i> , <u>83(2)</u> :351-356; (1994)
	CH	Feinstein <i>et al.</i> , "Thrombin, Collagen and A23187 Stimulated Endogenous Platelet Arachidonate Metabolism: Differential Inhibition by PGE <sub>1</sub> , Local Anesthetics and a Serine-Protease Inhibitor", <i>Prostaglandins</i> , <u>14(6)</u> :1075-1093; (1977)
	CI	Findeis <i>et al.</i> , "Targeted delivery of DNA for gene therapy via receptors", <i>TIBTECH</i> , <u>11(5)</u> :202-205; (1993)
	CJ	Forney <i>et al.</i> , "Interaction of the human Serine Protease Inhibitor $\alpha$ -1-Antitrypsin with <i>Cryptosporidium Parvum</i> ", <i>J. Parasitol.</i> , <u>82(3)</u> :496-502; (1996)
	CK	Friedmann <i>et al.</i> , "Gene Therapy for disorders of the nervous system", <i>TIBTECH</i> , <u>11(5)</u> :192-197; (1993)
	CL	Fujise <i>et al.</i> , "A tissue plasminogen activator/P-selectin fusion protein is an effective thrombolytic agent", <i>Circulation</i> , <u>95(3)</u> :715-722; (1997)
C88	CM	Gante, "Peptidomimetics-tailored Enzyme Inhibitors", <i>Angew. Chem. Int. Ed. Engl.</i> , <u>33</u> :1699-1720; (1994)

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Up	CN	Gautier <i>et al.</i> , " $\alpha$ -DNA IV: $\alpha$ -anomeric and $\beta$ -anomeric tetrathymidylates covalently linked to intercalating oxazolopyridocarbazole. Synthesis, physicochemical properties and poly (rA) binding", <i>Nucl. Acids Res.</i> , <u>15</u> :6625-6641; (1987)
	CO	Gething <i>et al.</i> , "Variants of human tissue-type plasminogen activator that lack specific structural domains of the heavy chain", <i>EMBO J.</i> , <u>7</u> (9):2731-2740; (1988)
	CP	Ghendler <i>et al.</i> , "Schistosoma mansoni: Isolation and Characterization of Smpi56, a Novel Serine Protease Inhibitor", <i>Exp. Parasitol.</i> , <u>78</u> :121-131; (1994)
	CQ	Goldmacher <i>et al.</i> , "Photoactivation of "Toxin Conjugates", <i>Bioconj. Chem.</i> , <u>3</u> :104-107; (1992)
	CR	Goldspiel <i>et al.</i> , "Human gene therapy", <i>Clinical Frontiers, Clinical Pharmacy</i> , <u>12</u> :488-505; (1993)
	CS	Gonzalez <i>et al.</i> , "Voltage Sensing by Fluorescence Resonance Energy Transfer in Single Cells", <i>Biophys. J.</i> , <u>69</u> :1272-1280; (1995)
	CT	Grossman <i>et al.</i> , "Retroviruses: delivery vehicle to the liver", <i>Curr. Opin. in Genetics and Devel.</i> , <u>3</u> :110-114; (1993)
	CU	Hamdaoui <i>et al.</i> , "Purification of a Novel, Heat-Stable Serine Protease Inhibitor Protein from Ovaries of the Desert Locust, <i>Schistocerca gregaria</i> ", <i>Biochem. Biophys. Res. Commun.</i> , <u>238</u> :357-360; (1997)
	CV	Hameed <i>et al.</i> , "3,4-Dichloroisocoumarin Serine Protease Inhibitor Induces DNA Fragmentation and Apoptosis in susceptible Target Cells", <i>DCI AND APOPTOSIS, Proc. Soc. Exp. Biol. Med.</i> , <u>219</u> (2):132-137; (1998)
	C W	Harper <i>et al.</i> , "Reaction of Serine Proteases with Substituted Isocoumarins: Discovery of 3,4-Dichloroisocoumarin, a New General Mechanism Based Serine Protease Inhibitor" <i>Biochem.</i> , <u>24</u> :1831-1841; (1985)
	CX	Hazum <i>et al.</i> , "A Photocleavable Protecting Group for the Thiol Function of Cysteine", Department of Organic Chemistry, The Weizmann Institute of Science Rehovot, Israel, <i>Pept., Proc. Eur. Pept. Symp.</i> , 16th, Brunfeldt, K (Ed), pages 105-110; (1981)
	CY	Hervio <i>et al.</i> , "Negative selectivity and the evolution of protease cascades: the specificity of plasmin for peptide and protein substrates", <i>Chem. Biol.</i> , <u>7</u> (6):443-453; (2000)
Up	CZ	Hesse <i>et al.</i> , "Effects of the Serine Protease Inhibitor Gabexate Mesilate on Purified Pancreatic Phospholipase A <sub>2</sub> ", <i>Pharmacol. Res. Commun.</i> , <u>16</u> (7):637-645; (1984)

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y	DA	Hill <i>et al.</i> , "A new intracellular serine protease inhibitor expressed in the rat pituitary gland complexes with granzyme B", <i>FEBS Lett.</i> , <u>440</u> :361-364; (1998)
	DB	Hiwasa <i>et al.</i> , "Potent growth-suppressive activity of a serine protease inhibitor, ONO-3403, toward malignant human neuroblastoma cell lines", <i>Cancer Lett.</i> , <u>126</u> :221-225; (1998)
	DC	Holmes, "Primary Structure of Human $\alpha_2$ -Antiplasmin, a serine Protease Inhibitor (Serpine)", <i>J. Biol. Chem.</i> , <u>262</u> (4):1659-1664; (1987)
	DD	Holstein <i>et al.</i> , "The primitive metazoan <i>Hydra</i> expresses antistasin, a serine protease inhibitor of vertebrate blood coagulation: cDNA cloning, cellular localisation and developmental regulation", <i>FEBS Lett.</i> , <u>309</u> (3):288-292; (1992)
	DE	Hooper <i>et al.</i> , "Type II Transmembrane Serine Proteases", <i>J. Biol. Chem.</i> , <u>276</u> :857-860; (2001)
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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
Up	AA	3	5	3	6	8	0	9	10/27/70	Applezweig	424	28	02/17/69
	AB	3	5	9	8	1	2	3	08/10/71	Zaffaroni	128	268	04/01/69
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	AE	3	8	4	5	7	7	0	11/05/74	Theeuwes et al.	128	260	06/05/72
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	AQ	5	0	5	9	5	9	5	10/22/91	Le Grazie	424	468	03/20/90
	AR	5	0	7	3	5	4	3	12/17/91	Marshall et al.	514	21	07/21/88
	AS	5	1	2	0	5	4	8	06/09/92	McClelland et al.	424	473	11/07/89
	AT	5	2	9	2	8	1	4	03/08/94	Bayer et al.	525	243	03/14/91
	AU	5	3	5	4	5	6	6	10/11/94	Addesso et al.	426	9	06/02/93
	AV	5	3	8	9	4	4	9	02/14/95	Afeyan et al.	428	523	01/05/93
Up	AW	5	5	9	1	7	6	7	01/07/97	Mohr et al.	514	413	06/06/95

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FORM PTO-1449 (Modified)

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ATTY. DOCKET NO.  
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1614

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
YF	AX	5	5	9	3	9	9	0	01/14/97	D'Amato	514	235.2	01/13/95
	AY	5	6	2	9	3	2	7	05/13/97	D'Amato	514	323	12/15/93
	AZ	5	6	3	9	4	7	6	06/17/97	Oshlack et al.	424	468	06/02/95
	BA	5	6	7	4	5	3	3	10/07/97	Santus et al.	424	493	05/26/95
	BB	5	7	1	2	2	9	1	01/27/98	D'Amato	514	323	06/06/95
	BC	5	7	3	3	5	6	6	03/31/98	Lewis	424	426	10/30/95
	BD	5	9	0	2	7	2	3	05/11/99	Dower et al.	435	6	07/12/96
YF	BE	5	9	2	5	5	2	5	07/20/99	Fodor et al.	435	6	04/03/98

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							PUB. DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
YF	BF	0	0	5	0	0	6	1	31/08/00	PCT				
	BG	0	6	1	3	6	8	3	07/09/94	EP A1				
	BH	0	6	1	3	6	8	3	07/09/94	EP B1				
	BI	8	6	0	3	8	4	0	03/07/86	PCT				
	BJ	9	2	0	6	1	8	0	16/04/92	PCT				
	BK	9	3	2	5	2	2	1	23/12/93	PCT				
	BL	9	4	1	7	7	8	4	18/08/94	PCT				
YF	BM	9	9	4	2	1	2	0	26/08/99	PCT				

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YF	BN	Abraham et al., "Immunochemical Identification of the Serine Protease Inhibitor $\alpha_1$ -Antichymotrypsin in the Brain Amyloid Deposits of Alzheimer's Disease", <i>Cell</i> , 52:487-501 (1988)
YF	BO	Adams et al., "The c-myc oncogene driven by immunoglobulin enhancers induces lymphoid malignancy in transgenic mice", <i>Nature</i> , 318:533-538 (1985)

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BP	Alexander <i>et al.</i> , "Expression of the <i>c-myc</i> Oncogene under Control of an Immunoglobulin Enhancer in <i>Eu-myc</i> Transgenic Mice", <i>Mol. Cell Biol.</i> , <u>7</u> (4):1436-1444 (1987)
BQ	Auerbach <i>et al.</i> , "Angiogenesis Inhibition: A Review", <i>Pharmacol. Ther.</i> , <u>63</u> (3):265-311 (1994)
BR	Baker <i>et al.</i> , "A Scintillation Proximity Assay for UDP-GalNAc:Polypeptide, <i>N</i> -Acetylgalactosaminyltransferase", <i>Anal. Biochem.</i> , <u>239</u> :20-24 (1996)
BS	Bannwarth <i>et al.</i> , "Global Phosphorylation Of Peptides Containing Oxidation-Sensitive Amino Acids", <i>Bioorganic &amp; Medicinal Chem. Lett.</i> , <u>6</u> (17):2141-2146 (1996)
BT	Bartel <i>et al.</i> , "Isolation of New Ribozymes from a Large Pool of Random Sequences", <i>Science</i> , <u>261</u> :1411-1418 (1993)
BU	Baumbach <i>et al.</i> , "Protein Purification Using Affinity Ligands Deduced from Peptide Libraries", <i>BioPharm.</i> , May ed., 24-35 (1992)
BV	Benton <i>et al.</i> , "Screening $\lambda$ gt Recombinant Clones by Hybridization to Single Plaques in situ", <i>Science</i> , <u>196</u> :180-182 (1977)
BW	Berg <i>et al.</i> , "Long-Chain Polystyrene-Grafted Polyethylene Film Matrix: A New Support for Solid-Phase Peptide Synthesis", <i>J. Am. Chem. Soc.</i> , <u>111</u> :8024-8026 (1989)
BX	Berg <i>et al.</i> , Book: "Peptide Synthesis on Polystyrene-Grafted Polyethylene Sheets", <i>Pept. Proc. 20th Eur. Pept. Symp.</i> , Jung, G. et al., Eds, p.p. 196-198 (1988)
BY	Berg <i>et al.</i> , Book: "Polystyrene-Grafted Polyethylene: Design of Film and Felt Matrices for Solid-Phase Peptide Synthesis", <i>Innovation Perspect. Solid Phase Synth. Collect. Pap.</i> , Int. Symp., 1st Epton, Roger, Ed., p.p. 453-459 (1990)
BZ	Blaney <i>et al.</i> , "Computational approaches for combinatorial library design and molecular diversity analysis", <i>Curr. Opin. Chem. Biol.</i> , <u>1</u> :54-59 (1997)
CA	Bock <i>et al.</i> , "Selection of single-stranded DNA molecules that bind and inhibit human thrombin", <i>Nature</i> , <u>355</u> :564-566 (1992)
CB	Boehm <i>et al.</i> , "The rhombotin family of cysteine-rich LIM-domain oncogenes: Distinct members are involved in T-cell translocations to human chromosomes 11p15 and 11p13", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>88</u> :4367-4371 (1991)
CC	Boesen <i>et al.</i> , "Circumvention of chemotherapy-induced myelosuppression by transfer of the <i>mdr1</i> gene", <i>Biotherapy</i> , <u>6</u> :291-302 (1994)

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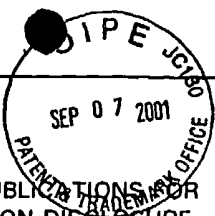
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Yp	CD	Borman, S., "Scientists Refine Understanding Of Protein Folding And Design", <i>Chem. Eng. News</i> , <u>2</u> (12):29-35 (1996)
	CE	Boublik et al., "Eukaryotic Virus Display: Engineering the Major Surface Glycoprotein of the <i>Autographa californica</i> Nuclear Polyhedrosis Virus (AcNPV) for the Presentation of Foreign Proteins on the Virus Surface", <i>Bio/Technol.</i> , <u>13</u> :1079-1084 (1995)
	CF	Brenner et al., "Encoded combinatorial chemistry", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>89</u> :5381-5383 (1992)
	CG	Bunin et al., "A General and Expedient Method for the Solid-Phase Synthesis of 1,4-Benzodiazepine Derivatives", <i>J. Am. Chem. Soc.</i> , <u>114</u> :10997-10998 (1992)
	CH	Bunin et al., "The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>91</u> :4708-4712 (1994)
	CI	<u>Burger's Medicinal Chemistry and Drug Discovery</u> , Book: Volume 1: "Principles and Practice", Wolff, M.E., Ed., John Wiley & Sons, Inc. (1995)
	CJ	Butz et al., "Immunization and Affinity Purification of Antibodies Using Resin-Immobilized Lysine-Branched Synthetic Peptides", <i>Peptide Res.</i> , <u>7</u> (1):20-23 (1994)
	CK	Caflich et al., "Computational combinatorial chemistry for de novo ligand design: Review and assessment", <i>Perspectives in Drug Discovery and Design</i> , <u>3</u> :51-84 (1995)
	CL	Chen et al., " "Analogous" Organic Synthesis of Small-Compound Libraries: Validation of Combinatorial Chemistry in Small-Molecule Synthesis", <i>J. Am. Chem. Soc.</i> , <u>116</u> :2661-2662 (1994)
	CM	Cheng et al., "Sequence-Selective Peptide Binding with a Peptido-A,B- <i>trans</i> -steroidal Receptor Selected from an Encoded Combinatorial Receptor Library", <i>J. Am. Chem. Soc.</i> , <u>118</u> :1813-1814 (1996)
	CN	Chu et al., "Using Affinity Capillary Electrophoresis To Identify the Peptide in a Peptide Library that Binds Most Tightly to Vancomycin", <i>J. Org. Chem.</i> , <u>58</u> :648-652 (1993)
	CO	Clackson et al., "Making antibody fragments using phage display libraries", <i>Nature</i> , <u>352</u> :624-628 (1991)
	CP	<u>Combinatorial Libraries</u> , Book: "Synthesis, Screening and Application Potential", Cortese, R., Ed., Water de Gruyter, New York (1996)
Yp	CQ	Combs et al., "Protein Structure-Based Combinatorial Chemistry: Discovery of Non-Peptide Binding Elements to Src SH3 Domain", <i>J. Am. Chem. Soc.</i> , <u>118</u> :287-288 (1996)

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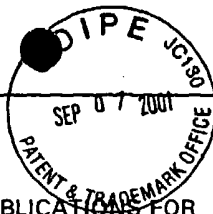
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up	CR	Current Protocols in Molecular Biology, Book: Volume 1, Supplement 47, John Wiley & Sons, Inc. (1990)
	CS	Database: Derwent# XP-002169836 WPI Acc. No. 1997-357902/33 (citing Japanese Application No. JP09149790-A, published June 10, 1997)
	CT	De Boer et al., "The <i>tac</i> promoter: A functional hybrid derived from the <i>trp</i> and <i>lac</i> promoters", <i>Proc. Natl. Acad. Sci. USA</i> , <u>80</u> :21-25 (1983)
	CU	Desai et al., "Tumor Angiogenesis and Endothelial Cell Modulatory Factors", <i>J. Immunol.</i> , <u>22</u> (3):186-211 (1999)
	CV	Devlin et al., "Random Peptide Libraries: A Source of Specific Protein "Binding Molecules", <i>Science</i> , <u>249</u> :404-406 (1990)
	CW	DeWitt et al., " "Diversomers:: An approach to nonpeptide, nonoligomeric chemical diversity", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>90</u> :6909-6913 (1993)
	CX	Dexter et al., "Conditions Controlling the proliferation of Haemopoietic Stem Cells In Vitro", <i>J. Cell. Physiol.</i> , <u>91</u> :335-344 (1976)
	CY	<u>DNA cloning</u> , Book: "A practical approach", Volume I, Glover, D.M., Ed., MRL Press Ltd., Oxford, Washington DC (1985)
	CZ	<u>Immobilized Biochemicals And Affinity Chromatography</u> , Book: Dunlap, R.B., Ed., Plenum Press, New York (1974)
	DA	Ecker et al., "Combinatorial Drug Discovery: Which Methods Will Produce the Greatest Value?", <i>Bio/Technol.</i> , <u>13</u> :351-360 (1995)
	DB	Eichler et al., "Identification of Substrate-Analog Trypsin Inhibitors through the Screening of Synthetic Peptide Combinatorial Libraries", <i>Biochem.</i> , <u>32</u> :11035-11041 (1993)
	DC	Ellington et al., "In vitro selection of RNA molecules that bind specific ligands", <i>Nature</i> , <u>346</u> :818-822 (1990)
	DD	Erickson et al., Book: <u>The Proteins</u> , "Solid-Phase Peptide Synthesis", Volume II, Neurath H., Hill, R.L. Eds., Academic Press, New York, p.p. 255-257 (1976)
	DE	Felici, F., "Selection of Antibody Ligands from a Large Library of Oligopeptides Expressed on a Multivalent Exposition Vector", <i>J. Mol. Biol.</i> , <u>222</u> :301-310 (1991)
up	DF	Fodor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis", <i>Science</i> , <u>251</u> :767-773 (1991)

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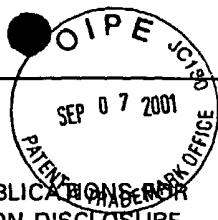
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Up	DG	Francisco <i>et al.</i> , "Transport and anchoring of $\beta$ -lactamase to the external surface of <i>Escherichia coli</i> ", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>89</u> :2713-2717 (1992)
	DH	Gallop <i>et al.</i> , "Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries", <i>J. Med. Chem.</i> , <u>37</u> (9):1233-1251 (1994)
	DI	Gardner <i>et al.</i> , "The complete nucleotide sequence of an infectious clone of cauliflower mosaic virus by M13mp7 shotgun sequencing", <i>Nucleic Acids. Res.</i> , <u>9</u> (12):2871-2889 (1981)
	DJ	Georgiou <i>et al.</i> , "Practical applications of engineering Gram-negative bacterial cell surfaces", <i>TIBTECH</i> , <u>11</u> :6-10 (1993)
	DK	Geysen <i>et al.</i> , "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid", <i>Proc. Natl. Acad. Sci. USA</i> , <u>81</u> :3998-4002 (1984)
	DL	Gilbert <i>et al.</i> , "Useful Proteins from Recombinant Bacteria", <i>Sci. Am.</i> , <u>242</u> :74-94 (1980)
	DM	Glaser <i>et al.</i> , "Antibody Engineering by Condon-Based Mutagenesis in a Filamentous Phage Vector System", <i>J. Immunol.</i> , <u>149</u> (12):3903-3913 (1992)
	DN	Gonzalez <i>et al.</i> , "Voltage Sensing by Fluorescence Resonance Energy Transfer in Single Cells", <i>Biophys. J.</i> , <u>69</u> :1272-1280 (1995)
	DO	Gram <i>et al.</i> , "In vitro selection and affinity maturation of antibodies from a naive combinatorial immunoglobulin library", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>89</u> :3576-3580 (1992)
	DP	Grunstein <i>et al.</i> , "Colony hybridization: A method for the isolation of cloned DNAs that contain a specific gene", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>72</u> (10):3961-3965 (1975)
	DQ	Grosschedl <i>et al.</i> , "Introduction of a $\mu$ Immunoglobulin Gene into the Mouse Germ Line: Specific Expression in Lymphoid Cells and Synthesis of Functional Antibody", <i>Cell</i> , <u>38</u> :647-658 (1984)
	DR	Hamdaoui <i>et al.</i> , "Purification of a Novel, Heat-Stable Serine Protease Inhibitor Protein from Ovaries of the Desert Locust, <i>Schistocerca gregaria</i> ", <i>Biochem. Biophys. Res. Commun.</i> , <u>238</u> (2):357-360 (1997)
Up	DS	Hammer <i>et al.</i> , "Diversity of Alpha-Fetoprotein Gene Expression in Mice Is Generated by a Combination of Separate Enhancer Elements", <i>Science</i> , <u>235</u> :53-58 (1987)

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yp	DT	Han <i>et al.</i> , "Liquid-Phase Combinatorial Synthesis", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>92</u> :6419-6423 (1995)
	DU	Hanahan, D., "Heritable formation of pancreatic $\beta$ -cell tumours in transgenic mice expressing recombinant insulin/simian virus 40 oncogenes", <i>Nature</i> , <u>315</u> :115-122 (1985)
	DV	Herrera-Estrella <i>et al.</i> , "Expression of chimaeric genes transferred into plant cells using a Ti-plasmid-derived vector", <i>Nature</i> , <u>303</u> :209-213 (1984)
	DW	Herrera-Estrella <i>et al.</i> , "Light-inducible and chloroplast-associated expression of a chimaeric gene introduced into <i>Nicotiana tabacum</i> using a Ti plasmid vector", <i>Nature</i> , <u>310</u> :115-120 (1984)
	DX	Hoogenboom, <i>et al.</i> , "Multi-Subunit Proteins on the Surface of Filamentous Phage: Methodologies for Displaying Antibody (Fab) Heavy and Light Chains", <i>Nucleic Acids Res.</i> , <u>19</u> (15):4133-4137 (1991)
	DY	Houghten <i>et al.</i> , "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery", <i>Nature</i> , <u>354</u> :84-86 (1991)
	DZ	Houghten, <i>et al.</i> , "General method for the rapid solid-phase synthesis of large numbers of peptides: specificity of antigen-antibody interaction at the level of individual amino acids", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>82</u> :5131-5135 (1985)
	EA	Houghten <i>et al.</i> , "The Use of Synthetic Peptide Combinatorial Libraries for the Identification of Bioactive Peptides", <i>BioTechniques</i> , <u>313</u> :412-421 (1992)
	EB	Houghten, <i>et al.</i> , "The Use Of Synthetic Peptide Combinatorial Libraries For The Determination Of Peptide Ligands In Radio-Receptor Assays-Opioid-Peptides", <i>Bioorg. Med. Chem. Lett.</i> , <u>3</u> (3):405-412 (1993)
	EC	Hruby <i>et al.</i> , "Emerging approaches in the molecular design of receptor-selective peptide ligands: conformational, topographical and dynamic considerations", <i>Biochem J.</i> , <u>268</u> :249-262 (1990)
	ED	Huang, <i>et al.</i> , "Discovery of new ligand binding pathways in myoglobin by random mutagenesis", <i>Nature Struct. Biol.</i> , <u>1</u> (4):226-229 (1994)
	EE	Hunkapiller <i>et al.</i> , "A microchemical facility for the analysis and synthesis of genes and proteins", <i>Nature</i> , <u>310</u> :105-111 (1984)
yp	EF	<u>Immobilized Enzymes, Antigens, Antibodies, and Peptides</u> , Preparation and Characterization, Weetall, H.H., Ed., Marcel Dekker, Inc., New York, (1975)

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ly	EG	IUPAC-IUB, "Commission on Biochemical Nomenclature Abbreviated Nomenclature of Synthetic Polypeptides (Polymerized Amino Acids)", <i>Biochem.</i> , <u>11(5)</u> :942-944 (1972)
	EH	Jackson <i>et al.</i> , "The codependence of angiogenesis and chronic inflammation", <i>FASEB</i> , <u>11</u> :457-465 (1997)
	EI	Janda, K.D., "New Strategies for the Design of Catalytic Antibodies", <i>Biotechnol. Prog.</i> , <u>6</u> :178-181 (1990)
	EJ	Jung <i>et al.</i> , "Multiple Peptide Synthesis Methods and Their Applications", <i>Angew. Chem. Int. Ed. Engl.</i> , <u>31(4)</u> :367-486 (1992)
	EK	Kang <i>et al.</i> , "Antibody redesign by chain shuffling from random combinatorial immunoglobulin libraries", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>88</u> :11120-11123 (1991)
	EL	Kay <i>et al.</i> , "An M13 phage library displaying random 38-amino-acid-peptides as a source of novel sequences with affinity to selected targets genes, <i>Gene</i> , <u>128</u> :59-65 (1993)
	EM	Kelsey <i>et al.</i> , "Species- and tissue-specific expression of human $\alpha_1$ -antitrypsin in transgenic mice", <i>Genes and Devel.</i> , <u>1</u> :161-171 (1987)
	EN	Kennedy <i>et al.</i> , "Immobilized Enzymes", Book: Volume 66, Chapter 7, <i>Solid Phase Biochemistry. Analytical and Synthetic Aspects</i> , John Wiley & Sons, Inc., New York, p.p., 253-391 (1993)
	EO	Kitamoto <i>et al.</i> , "Enterokinase, the initiator of intestinal digestion, is a mosaic protease composed of a distinctive assortment of domains", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , <u>91</u> :7588-7592 (1994)
	EP	Kleine <i>et al.</i> , "Lipopeptide-Polyoxyethylene Conjugates as Mitogens and Adjuvants", <i>Immunobiol.</i> , <u>190</u> :53-66 (1994)
	EQ	Kodo <i>et al.</i> , "Antibody Synthesis by Bone Marrow Cells In Vitro following Primary and Booster Tetanus Toxoid Immunization in Humans", <i>J. Clin. Invest.</i> , <u>73</u> :1377-1384 (1984)
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STATEMENTAPPLICANT  
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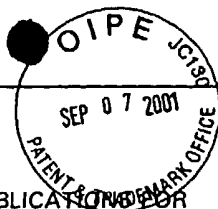
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MADISON et al.FILING DATE  
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	FILING DATE February 2, 2001	GROUP 1614

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE

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	DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No
Yp	A 0 1 0 4 1 4 1	18/01/01	PCT			
	B 0 1 3 6 6 0 4	05/25/01	PCT			
	C 0 1 5 7 1 9 4	08/09/01	PCT			
	D 9 9 3 6 5 5 0	22/07/99	PCT			
Yp	E 9 9 4 6 2 8 1	16/09/99	PCT			

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Yp	F	Database EMBL, Accession Number W22987, "Human Serine Protease 67", XP002169836 abstract, 8/Oct/97; abstract of Japan, <u>1997(10)</u> , 31/Oct/97; abstract of Japan 09 149790, 10/Jun/97
	G	Database EMBL, Accession Number AAY41710, "Human PR0618 protein sequence", <u>Genentech Inc.</u> , XP002175683 abstract, 7/Dec/99; PCT 99 46281 A, <u>Genentech Inc.</u> , 16/Sep/99
	H	Database EMBL, Accession Number AAZ34033, "Human PR0618 nucleotide sequence", <u>Genentech Inc.</u> , XP002175684 abstract, 7/Dec/99; PCT 99 46281 A, <u>Genentech Inc.</u> , 16/Sep/99
	I	Database EMBL, Accession Number AAZ33949, "Human PR0382 nucleotide sequence", <u>Genentech Inc.</u> , XP002175685 abstract, 7/Dec/99; PCT 99 46281 A, <u>Genentech Inc.</u> , 16/Sep/99
	J	Database EMBL, Accession Number AAY41694, "Human PR0382 protein sequence", <u>Genentech Inc.</u> , XP002175687 abstract, 7/Dec/99; PCT 99 46281 A, <u>Genentech Inc.</u> , 16/Sep/99
Yp	K	La Vallie et al., "Cloning and Functional Expression of a cDNA Encoding the Catalytic Subunit of Bovine Enterokinase", <i>J. Biol. Chem.</i> , <u>268(31)</u> :23311-23327, (1993)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING TRANSMEMBRANE SERINE PROTEASES, THE ENCODED PROTEINS AND METHODS BASED THEREON**

Mail date: 01/09/02

FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 24745-1607	SERIAL NO. 09/776,191
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT MADISON et al.	
	FILING DATE February 2, 2001	GROUP 1614

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

cp	L	Lu <i>et al.</i> , "Bovine Proenteropeptidase Is Activated by Trypsin, and the Specificity of Enteropeptidase Depends on the Heavy Chain", <i>J. Biol. Chem.</i> , <u>272(50)</u> :31293-31300, (1997)
	M	Sheau-Ling <i>et al.</i> , "Activation of hepatocyte growth factor and urokinase/plasminogen activator by matriptase, an epithelial membrane serine protease", <i>J. Biol. Chem.</i> , <u>275(47)</u> :36720-36725; (2000)
	N	Takeuchi <i>et al.</i> , "Cellular localization of membrane-type serine protease 1 and identification of protease-activated receptor-2 and single-chain urokinase-type plasminogen activator as substrates", <i>J. Biol. Chem.</i> , <u>275(34)</u> :26333-26342; (2000)
	O	Takeuchi <i>et al.</i> , "Reverse biochemistry: Use of macromolecular protease inhibitors to dissect complex biological processes and identify a membrane-type serine protease in epithelial cancer and normal tissue", <i>Nat'l. Acad. Sci. USA</i> , <u>96(20)</u> :11054-11061; (1999)
yp	P	Thompson, C.B., "Distinct Roles for the Costimulatory Ligands B7-1 and B7-2 in T Helper Cell Differentiation", <i>Cell</i> , <u>81</u> :979-982; (1995)

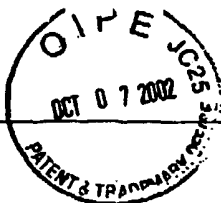
EXAMINER

DATE CONSIDERED

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Mail date: 01/09/02



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
24745-1607SERIAL NO.  
09/776,191LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENTAPPLICANT  
MADISON et al.**RECEIVED**FILING DATE  
February 2, 2001GROUP  
1646

OCT 11 2002

TECH CENTER 1600/2900

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	Ref. Code	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
none							

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	Ref. Code	DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No
none							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

48	A	GenBank accession number for nucleotide: AI924527 ~
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	C	GenBank accession number for nucleotide: AI391417 ~
	D	GenBank accession number for nucleotide: AA208793 ~
	E	GenBank accession number for nucleotide: AA883068
	F	GenBank accession number for nucleotide: AW591433
	G	GenBank accession number for nucleotide: AI978874
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	I	GenBank accession number for nucleotide: AI935487
	J	GenBank accession number for nucleotide: AI534591
	K	GenBank accession number for nucleotide: AI758271
	L	GenBank accession number for nucleotide: AF133845
	M	GenBank accession number for nucleotide: AB013874
	N	GenBank accession number for nucleotide: U09860
	O	GenBank accession number for nucleotide: AB002134
	P	GenBank accession number for nucleotide: AF118224
48	Q	GenBank accession number for nucleotide: AF133086

EXAMINER

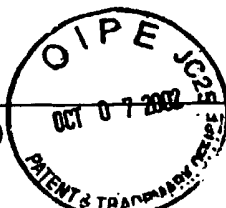
*Y. J. Park*

DATE CONSIDERED

11/26/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING TRANSMEMBRANE SERINE PROTEASES, THE ENCODED PROTEINS AND METHODS BASED THEREON**



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
24745-1607SERIAL NO.  
09/776,191LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENTAPPLICANT  
MADISON et al.**RECEIVED**FILING DATE  
February 2, 2001GROUP  
1646

OCT 11 2002

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Up	R	GenBank accession number for nucleotide: AF042822
	S	GenBank accession number for nucleotide: AF030065
	T	GenBank accession number for nucleotide: M18930
	U	GenBank accession number for nucleotide: X70900
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	W	GenBank accession number for nucleotide: AF113596
	X	GenBank accession number for nucleotide: NM_016425
	Y	GenBank accession number for nucleotide: AI909842
Up	Z	GenBank accession number for nucleotide: P05981

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*Up Pak*

DATE CONSIDERED

10/26/03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING TRANSMEMBRANE SERINE PROTEASES, THE ENCODED PROTEINS AND METHODS BASED THEREON**



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**Title: NUCLEIC ACID MOLECULES ENCODING TRANSMEMBRANE SERINE PROTEASES, THE ENCODED PROTEINS AND METHODS BASED THEREON**

FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 24745-1607	SERIAL NO. 09/776,191
	APPLICANT Madison <i>et al.</i>	
	FILING DATE February 2, 2001	GROUP 1646

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

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TECH CENTER 1800/2900

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
Yp	A	0	0	0	8	3	7	2	01/09/03	Madison <i>et al.</i>	435	226	03/13/02
	B	0	0	3	7	8	5	7	03/28/02	Semple <i>et al.</i>	514	19	12/07/00
	C	0	1	0	7	2	6	6	08/08/02	Lim-Wilby <i>et al.</i>	514	339	12/11/01
	D	0	1	6	0	9	6	2	10/31/02	Saksena <i>et al.</i>	514	19	07/19/01
	E	5	5	8	9	1	5	4	12/31/96	Anderson	424	1.41	11/22/94
Yp	F	5	8	0	4	4	1	0	09/03/98	Yamaoka <i>et al.</i>	435	69.1	07/28/95

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
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	J	0	1	4	6	4	0	7	06/28/01	PCT				
	K	0	1	4	9	8	6	4	07/12/01	PCT				
	L	0	1	5	4	4	7	7	08/02/01	PCT				
	M	0	2	0	0	8	1	87	01/31/02	PCT				
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Yp	T	0	2	0	9	2	8	41	11/21/02	PCT				

EXAMINER

DATE CONSIDERED

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FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 24745-1607	SERIAL NO. 09/776,191
	APPLICANT Madison <i>et al.</i> ,	
	FILING DATE February 2, 2001	GROUP 1646

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
Yp	U	0	2	0	9	5	0	07	02/07/02	PCT				
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	W	0	3	0	0	4	6	81	01/16/03	PCT				
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	Y	9	6	3	0	3	5	3	10/03/96	PCT A				
	Z	9	7	2	1	6	9	0	06/19/97	PCT A				
Yp	AA	9	9	1	7	7	9	0	04/15/99	PCT A				

X\* = An English Language Derwent is provided.

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Yp	AB	Derwent#007409639, WPI Acc. No. 1988-043574/198807, for European Patent Application, EP 257352, "Determining free portion of e.g. thyroxine in presence of binder - by reaction with antibody which does not effect bound-unbound equilibrium, then reacting cross reactive tracer with antibody".
	AC	Fernandez <i>et al.</i> , "N-Succinyl-( $\beta$ -alanyl-L-alanyl-L-leucyl)doxorubicin: An Extracellularly Tumor-Activated Prodrug Devoid of Intravenous Acute Toxicity", <i>J Med Chem</i> , 2 pages, (2001)
	AD	Harris <i>et al.</i> , "Rapid and general profiling of protease specificity by using combinatorial fluoregenic substrate libraries," <i>PNAS</i> 97: 7754-7759 (2000)
	AE	Liu <i>et al.</i> , "Eradication of large colon tumor xenografts by targeted delivery of maytansinoids", <i>Proc Natl Acad Sci USA</i> , 93:8618-8623 (1996)
	AF	Pastan <i>et al.</i> , "Recombinant Toxins for Cancer Treatment", <i>Science</i> , 254:1173-1177; (1991)
Yp	AG	Schmidt, M. and W. Wels, "Targeted inhibition of tumour cell growth by a bispecific single-chain toxin containing an antibody domain and TGF $\alpha$ ", <i>British Journal of Cancer</i> , 74:853-862 (1996).

EXAMINER

DATE CONSIDERED

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FORM PTO-1449 (Modified)  LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 24745-1607	SERIAL NO. 09/776,191
	APPLICANT Madison <i>et al.</i> ,	
	FILING DATE February 2, 2001	GROUP 1646

40	AH	Trouet <i>et al.</i> , "Extracellularly Tumor-activated Prodrugs for the Selective Chemotherapy of Cancer: Application to Doxorubicin and Preliminary <i>in Vitro</i> and <i>in Vivo</i> Studies", <i>Cancer Research</i> , <u>61</u> :2843-2846 (2001)
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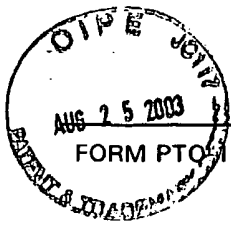
EXAMINER

Y. Pan

DATE CONSIDERED

1-21-04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENTATTY. DOCKET NO.  
24745-1607SERIAL NO.  
09/776,191APPLICANT  
Madison *et al.*CUST. NO. CONF.  
24961 3237FILING DATE  
February 2, 2001GROUP NO.  
1646

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
Yp	A	0	0	1	9	0	0	6	02/14/02	Yuan <i>et al.</i>	435	6	08/03/01
Yp	B	0	0	6	4	8	5	6	05/30/02	Plowman <i>et al.</i>	435	226	06/26/01
Yp	C	6	3	6	5	3	9	1	04/02/02	Webster <i>et al.</i>	435	183	12/13/00

## FOREIGN PATENT DOCUMENTS

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	F	0	1	5	5	4	4	1	08/02/01	PCT A2				
	G	0	2	0	6	4	5	3	01/24/02	PCT A2				
Yp	H	0	2	2	6	9	4	7	04/04/02	PCT A2				

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

YpR

DATE CONSIDERED

10/26/04

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FORM PTO-1449 (Modified)

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ATTY. DOCKET NO.  
24745-1607SERIAL NO.  
09/776,191LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENTAPPLICANT  
Madison *et al.*CUST. NO. CONF. NO.  
24961 3237FILING DATE  
February 2, 2001GROUP NO.  
1646

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
Uf	A	0	1	6	5	3	7	6	11/2002	Walke <i>et al.</i>	536	32.2	
g	B	0	1	5	3	0	1	4	08/2003	Shen <i>et al.</i>	435	7.9	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation	
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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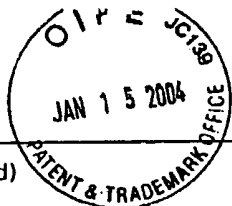
EXAMINER

Uf Pm

DATE CONSIDERED

10/21/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 (Modified)  LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 24745-1607	SERIAL NO. 09/776,191
	APPLICANT Madison <i>et al.</i>	CUST. NO. CONF. NO. 24961 3237
	FILING DATE February 2, 2001	GROUP NO. 1646

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
Y	A	0	0	0	1	8	0	1	01/01/04	Madison <i>et al.</i>	424	85.1	05/23/02
	B	0	0	5	0	2	5	1	03/13/03	Semple <i>et al.</i>	514	19	03/05/02
	C	0	0	7	7	6	9	7	04/24/03	Gerlack <i>et al.</i>	435	69.1	07/03/01
	D	0	1	3	4	2	9	8	07/17/03	Madison <i>et al.</i>	435	6	07/30/02
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	F	0	1	4	3	2	1	9	07/31/03	Madison <i>et al.</i>	424	94.67	10/08/02
	G	0	1	6	6	8	5	1	09/04/03	Madison <i>et al.</i>	530	350	03/27/02
	H	0	1	7	0	6	3	0	09/11/03	Alsobrook <i>et al.</i>	435	6	12/21/01
	I	0	1	8	1	6	5	8	09/25/03	Madison <i>et al.</i>	530	350	03/20/02
	J	0	1	8	6	3	2	9	10/02/03	Madison <i>et al.</i>	435	7.1	01/21/03
Y	K	0	2	3	5	9	0	0	12/25/03	Madison <i>et al.</i>	435	226	05/14/02

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
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	M	0	3	0	4	4	1	79	05/30/03	PCT				

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Y	N	Bergstrom <i>et al.</i> , "Binding of nonphysiological protein and peptide substrates to proteases: differences between urokinase-type plasminogen activator and trypsin and contributions to the evolution of regulated proteolysis", <i>Biochem.</i> , 42:5395-402 (2003)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 1Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark Office**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Attorney's Docket No.  
17106-017001 / 1607Application No.  
09/776,191  
Cust. No.:  
20985Applicant  
Edwin Madison, et al.Filing Date  
February 2, 2001Group Art Unit  
1652  
Conf. No.  
3237**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
yr	A	2003-0175938	9/18/03	Shi <i>et al.</i>			
yr	B	2003-0232349	12/18/02	Delegeane <i>et al.</i>			

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
yr	C	WO 03/104391	12/18/03	PCT				
yr	D	WO 04/005471	1/15/04	PCT				

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
yr	E	Bork, P., "Powers and Pitfalls in Sequence Analysis: the 70% Hurdle," <i>Genome Research</i> 10: 398-400 (2000)
yr	F	Broun <i>et al.</i> , "Catalytic Plasticity of Fatty Acid Modification Enzymes Underlying Chemical Diversity of Plant Lipids," <i>Science</i> 282:1315-1317 (1998)
yr	G	Ngo <i>et al.</i> "Computational Complexity, Protein Structure Prediction, and the Levinthan Paradox," Chapter 14 in <i>The Protein folding problem and tertiary structure prediction</i> Kenneth M. Merz, Jr. and Scott M. Le Grand (Eds.) Boston: Birkhäuser pp. 433-506 (1994)
yr	H	Van de Loo <i>et al.</i> "An oleate 12-hydroxylase from <i>Ricinus communis</i> L. is a fatty acyl desaturase homolog," <i>Proc. Natl. Acad. Sci. USA</i> 92:6743-6747 (1995)
yr	I	Wikowski <i>et al.</i> , "Conversion of a $\beta$ -Ketoacyl Synthase to a Malonyl Decarboxylase by Replacement of the Active-Site Cysteine with Glutamine," <i>Biochemistry</i> 38:11643-11650 (1999)

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Examiner Signature

Date Considered

1/26/04

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)





Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17106-017001 / 1607	Application No. 09/776,191
		Applicant Edwin Madison, et al.	
		Filing Date February 2, 2001	Group Art Unit 1652

**List of Patents and Publications for Applicant's  
Information Disclosure Statement**

(37 CFR §1.98(b))

**U.S. Patent Documents**

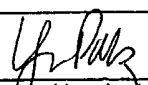
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
yp	A	20010119130	12/6/01	Eaton <i>et al.</i>	424	94.1	12/06/01
yp	B	6638977	10/28/03	Madison <i>et al.</i>	514	538	11/19/99
yp	C	6677473	1/13/04	Madison <i>et al.</i>	560	52	11/17/00

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
yp	D	04001801	1/1/04	PCT				

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
yp	E	Friedrich <i>et al.</i> , "Catalytic Domain Structures of MT-SP1/Matriptase, a Matrix-degrading Transmembrane Serine Proteinase", <i>J Bio Chem</i> , 277(3):2160-2168 (2002)
yp	F	Ong <i>et al.</i> , "Biosynthesis of HNK-1 Glycans on O-Linked Oligosaccharides Attached to the Neural Cell Adhesion Molecule (NCAM)", <i>J Biochem</i> , 277(20):18182-18190 (2002)
yp	G	Xue <i>et al.</i> , "The Kringle V-protease domain is a fibrinogen binding region within Apo(a)", <i>Thromb Haemost.</i> 86(5):1229-37 (2001)

Examiner Signature 	Date Considered 10/26/04
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Nucleic Acid Molecules Encoding Transmembrane Serine Proteases, The Encoded Proteins And Methods Based Thereon	